

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the claims

1. (Currently Amended) An article of manufacture, comprising:
a linear copolymer of ethylene and vinyl aromatic monomer having a weight average molecular weight of less than 15,000, wherein the copolymer is characterized by a backbone having a first and second terminal end group, the first terminal end group is a methyl group, the second terminal end group is a vinyl group, wherein the ratio of the terminal methyl group to the terminal vinyl group is 0.8:1 to 1:0.8.
2. (Previously canceled)
3. (Original) The article of manufacture of claim 1, wherein the backbone of the copolymer is substantially free of a vinylidene group.
4. (Original) The article of manufacture of claim 1, wherein the article is a wax.
5. (Original) The article of manufacture of claim 1, wherein the article is a hot melt adhesive.
6. (Original) The article of manufacture of claim 1, wherein the article is an electrostatic toner.
7. (Original) The article of manufacture of claim 1, wherein the article is a lubricant.
8. (Original) The article of manufacture of claim 1, wherein the copolymer includes a functional group.
9. (Original) The article of manufacture of claim 8, wherein the functional group is a halogen, hydroxyl, anhydride, amine, amide, carboxylic acid, ester, ether, or nitrile group.
10. (Currently Amended) A method of functionalizing a polymer, comprising:
obtaining a linear copolymer of ethylene and vinyl aromatic monomer having a weight average molecular weight of less than 15,000, the copolymer being characterized by a backbone having a first and second terminal end group, the first terminal end group being a methyl group, the second terminal end group being a vinyl group, wherein the ratio of the terminal methyl group to the terminal vinyl group is 0.8:1 to 1:0.8; and effectuating functionalization of the vinyl group to make a functionalized copolymer.

11. (Original) The method of claim 10, wherein the functionalization is chlorination.
12. (Original) The method of claim 10, wherein the functionalization is epoxidation.
13. (Original) The method of claim 10, wherein the functionalization is oxidation.
14. (Original) The method of claim 10, wherein the functionalization is carboxylation.
15. (Original) The method of claim 10, wherein the functionalization is sulfonation.